

California Department of Conservation  
FARMLAND MAPPING AND MONITORING PROGRAM

**SOIL CANDIDATE LISTING**

**for**

**PRIME FARMLAND AND FARMLAND OF STATEWIDE IMPORTANCE**

**IMPERIAL COUNTY**

**Includes soil unit changes submitted to FMMP from NRCS in  
1995.**

P to S: soils 107, 132, 133, 135, 136, 138

U to S: soil 113

U.S. Department of Agriculture, Natural Resources Conservation Service, soil surveys for Imperial County include:

Soil Survey of Imperial County, California, Imperial Valley Area,  
October 1981

Soil Survey of Yuma-Wellton Area: Parts of Yuma County, Arizona, and  
Imperial County, California, December 1980

Soil Survey of Palo Verde Area, California, September 1974

U.S. DEPARTMENT OF AGRICULTURE  
NATURAL RESOURCES CONSERVATION SERVICE  
DAVIS, CALIFORNIA 95616

THESE SOIL MAPPING UNITS MEET THE CRITERIA FOR PRIME FARMLAND AS OUTLINED IN THE U.S. DEPARTMENT OF AGRICULTURE'S LAND INVENTORY AND MONITORING (LIM) PROJECT FOR THE IMPERIAL VALLEY AREA, YUMA-WELLTON AREA (WINTERHAVEN), AND PALO VERDE AREA SOIL SURVEYS.

IMPERIAL VALLEY AREA

Note: These soils qualify for Prime Farmland if irrigated.

| <u>Symbol</u> | <u>Name</u>                |
|---------------|----------------------------|
| 100           | Antho loamy fine sand      |
| 101*          | Antho-Superstition complex |
| 105           | Glenbar clay loam          |
| 106           | Glenbard clay loam, wet    |
| 108           | Holtville loam             |
| 109           | Holtville silty clay       |
| 110           | Holtville silty clay, wet  |
| 117           | Indio loam                 |
| 118           | Indio loam, wet            |

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# Prime if managed so that the water table is maintained at a sufficient depth during the cropping season to allow cultivated crops common to the area to be grown.

\* Prime is managed so that in all horizons within a depth of 40 inches (1 meter), during part of each year the conductivity of the saturation extract is less than 4 mmhos/cm and the exchangeable sodium percentage (ESP) is less than 15.

## IMPERIAL VALLEY AREA Cont.

Note: These soils qualify for prime if irrigated.

| <u>Symbol</u> | <u>Name</u>                               |
|---------------|---|
| 119           | Indio-Vint complex                        |
| 120           | Laveen loam                               |
| 122           | Meloland very fine sandy loam, wet        |
| 123           | Meloland and Holtville loams, wet         |
| 137           | Rositas silt loam, 0 to 2 percent slopes  |
| 139*          | Superstition loamy fine sand              |
| 142           | Vint loamy very fine sand, wet            |
| 143           | Vint fine sandy loam                      |
| 144           | Vint and Indio very fine sandy loams, wet |

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# Prime if managed so that the water table is maintained at a sufficient depth during the cropping season to allow cultivated crops common to the area to be grown.

\* Prime is managed so that in all horizons within a depth of 40 inches (1 meter), during part of each year the conductivity of the saturation extract is less than 4 mmhos/cm and the exchangeable sodium percentage (ESP) is less than 15.

JPR Revised RLW 2/24/81  
Retyped 7/12/95

**IMPERIAL COUNTY  
PRIME FARMLAND SOILS**

YUMA-WELLTON AREA (Imperial County portion)

| <u>Symbol</u>    | <u>Name</u>             |
|------------------|-------------------------|
| 10               | Glenbar silty clay loam |
| 12 <sup>*#</sup> | Holtville clay          |
| 13 <sup>*</sup>  | Indio silt loam         |
| 17               | Kofa clay               |
| 19               | Lagunita silt loam      |
| 24               | Ripley silt loam        |

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\* Prime if the soils have a pH between 4.5 and 8.4 in all horizons within a depth of 40 inches. If the soil reaction is greater than pH 8.4 and less than 9.0, this mapping unit should be of Statewide Importance.

# Prime if the soil can be managed so that, in all horizons within a depth of 40 inches, during part of each year the electrical conductivity of the saturation extract is less than 4 mmhos/cm and the exchangeable sodium percentage is less than 15. If the electrical conductivity is greater than 4 but less than 16 mmhos/cm, the mapping unit should be of Statewide Importance.

RLW 9/21/81  
Retyped 7/12/95

PALO VERDE AREA

| <u>Symbol</u>   | <u>Name</u>                                    |
|-----------------|--|
| Ac              | Aco gravelly loamy sand                        |
| Af              | Aco sandy loam                                 |
| Gb              | Gilman fine sandy loam                         |
| Gc              | Gilman silty clay loam                         |
| Ge              | Glenbar silty clay loam                        |
| Hb <sup>*</sup> | Holtville fine sandy loam                      |
| Hc <sup>*</sup> | Holtville silty clay                           |
| Id <sup>*</sup> | Indio very fine sandy loam                     |
| Ie <sup>*</sup> | Indio silty clay loam                          |
| Oc <sup>*</sup> | Orita fine sand                                |
| Og <sup>*</sup> | Orita gravelly loamy sand                      |
| Or <sup>*</sup> | Orita gravelly fine sandy loam                 |
| Rb <sup>*</sup> | Ripley very fine sandy loam                    |
| Rc <sup>*</sup> | Ripley silty clay loam                         |
| RoA             | Rositas fine sand, 0 to 2 percent slopes       |
| RoB             | Rositas fine sand, 2 to 9 percent slopes       |
| RtA             | Rositas silty clay loam, 0 to 2 percent slopes |

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\* This unit is Prime only if reclaimed such that the electrical conductivity is less than 4 mmhos/cm.

Revised 10/22/80  
retyped: 7/12/95

**IMPERIAL COUNTY  
FARMLAND OF STATEWIDE  
IMPORTANCE SOILS**

U.S. DEPARTMENT OF AGRICULTURE  
NATURAL RESOURCES CONSERVATION SERVICE  
DAVIS, CALIFORNIA 95616

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IMPERIAL VALLEY AREA

Note: These soils qualify for Farmland of Statewide Importance only if irrigated.

| <u>Symbol</u> | <u>Name</u>   |
|---------------|---|
| 107           | Glenbar complex   |
| 111           | Holtville-Imperial silty clay loams                           |
| 112           | Imperial silty clay   |
| 113           | Imperial silty clay, saline                                   |
| 114           | Imperial silty clay, wet                                      |
| 115           | Imperial-Glenbar silty clay loams, wet, 0 to 2 percent slopes |
| 116           | Imperial-Glenbar silty clay loams, 2 to 5 percent slopes      |
| 121           | Meloland fine sand  |
| 124           | Niland gravelly sand  |
| 125           | Niland gravelly sand, wet                                     |
| 126           | Niland fine sand  |
| 127           | Niland loamy fine sand  |
| 128           | Niland-Imperial complex, wet                                  |
| 130           | Rositas sand, 0 to 2 percent slopes                           |

|     |  |
|-----|--|
| 131 | Rositas sand, 2 to 5 percent slopes            |
| 132 | Rositas fine sand, 0 to 2 percent slopes       |
| 133 | Rositas fine sand, 2 to 5 percent slopes       |
| 135 | Rositas fine sand, wet, 0 to 2 percent slopes  |
| 136 | Rositas loamy fine sand, 0 to 2 percent slopes |
| 138 | Rositas and Superstition loamy fine sands      |

RLW Revised 2/24/81  
Retyped 7/12/95

YUMA-WELLTON AREA (Imperial County Portion)

| <u>Symbol</u> | <u>Name</u>                   |
|---------------|-------------------------------|
| 8             | Gadsden clay                  |
| 14            | Indio silt loam, saline       |
| 16            | Indio-Lagunita-Ripley complex |
| 18            | Lagunita loamy sand           |
| 25            | Rositas sand                  |

RLW 9/17/81  
Retyped 7/12/95

PALO VERDE AREA

| <u>Symbol</u> | <u>Name</u>              |
|---------------|--------------------------|
| Co            | Cibola fine sandy loam   |
| Cs            | Cibola silty clay loam   |
| Ib            | Imperial fine sandy loam |

|     |  |
|-----|--|
| Ic  | Imperial silty clay                                |
| Md  | Meloland fine sandy loam                           |
| Me  | Meloland silty clay loam                           |
| RsA | Rositas gravelly loamy sand, 0 to 2 percent slopes |

Revised 10/22/80  
retyped: 7/12/95